

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51577 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 6 2015

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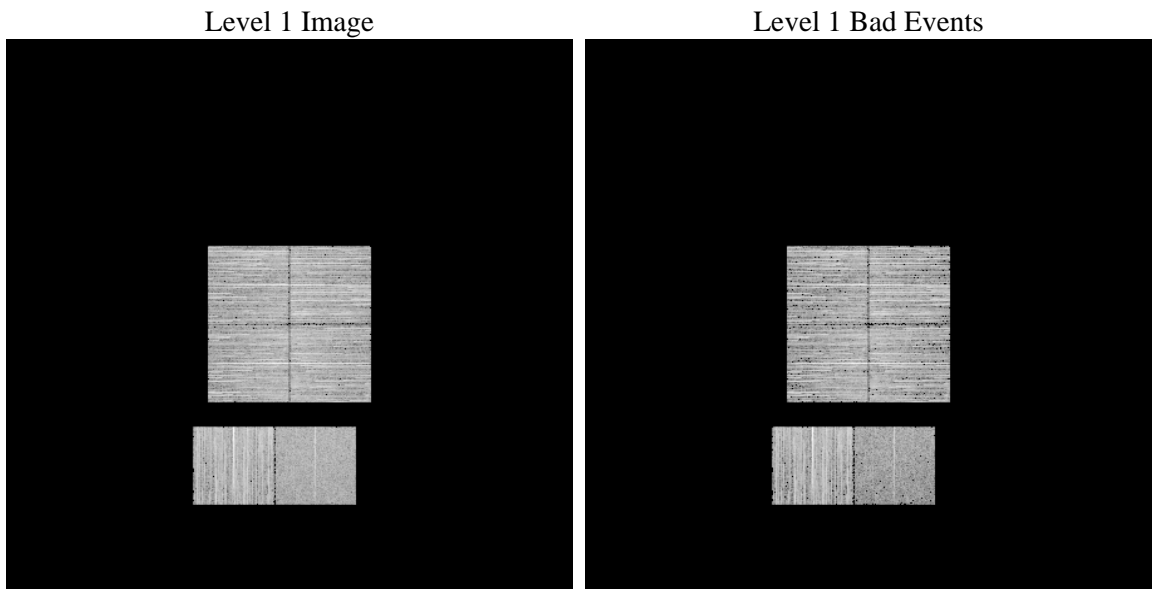
# 1 Front

seq_num	&#160	Sequence number
obs_id	51577	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	35.482597459141	Nominal RA [deg]
dec_nom	7.0231330658039	Nominal Dec [deg]
roll_nom	93.780162067575	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3762.8664226532	Sum of GTIs [s]
livetime	3715.2187422834	Livetime [s]
ontime0	3762.8663922548	Sum of GTIs [s]
ontime1	3765.2297775745	Sum of GTIs [s]
ontime2	3765.1887375116	Sum of GTIs [s]
ontime3	3762.8663922548	Sum of GTIs [s]
ontime6	3765.1476975679	Sum of GTIs [s]
ontime7	3762.8664226532	Sum of GTIs [s]
l2events	64413	Number of level 2 events

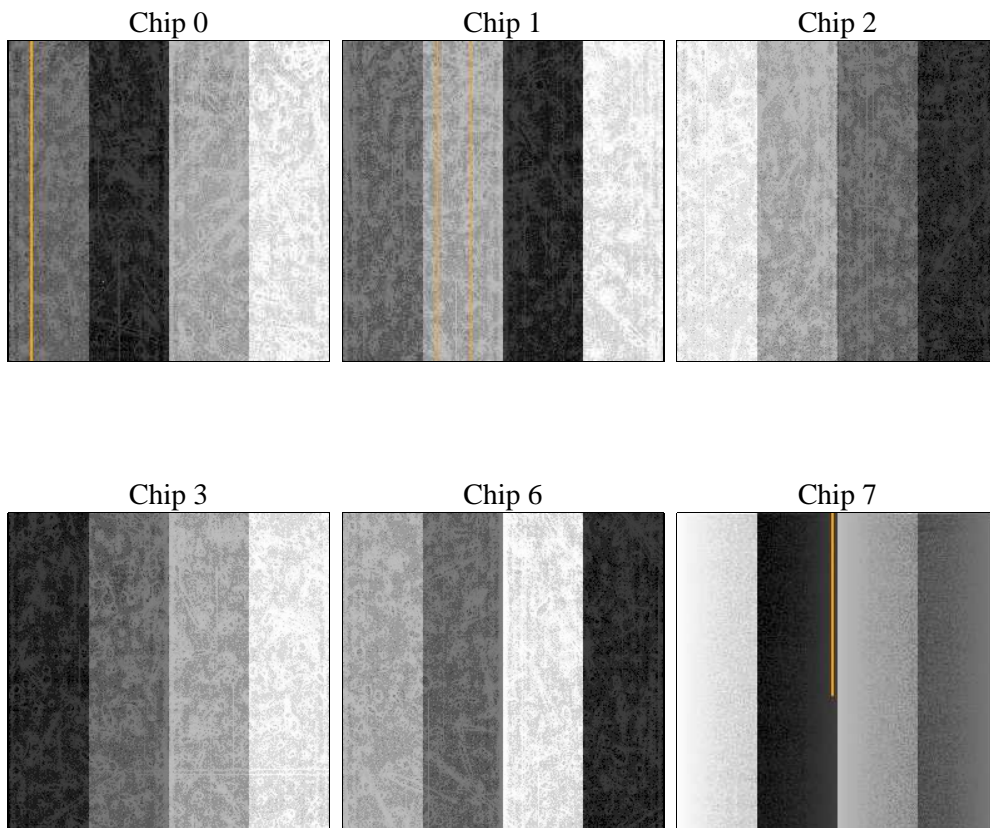
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	3762.8664226532	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime0	3762.8663922548	Sum of GTIs [s]
date	2015-10-06T12:24:30	Date and time of file creation	ontime1	3765.2297775745	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3765.1887375116	Sum of GTIs [s]
			ontime3	3762.8663922548	Sum of GTIs [s]
			ontime6	3765.1476975679	Sum of GTIs [s]
			ontime7	3762.8664226532	Sum of GTIs [s]
			l1events	400473	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	65715	72635	66723	67444	74352	53604	grade 0 events	4442	4174	4674	4595	4259	2298
rejected events	56304	63156	57285	58141	64514	32463		6%	5%	7%	6%	5%	4%
rejected %	85%	86%	85%	86%	86%	60%	grade 1 events	32	29	38	32	23	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	2072	2298	1944	1926	2450	5270
								3%	3%	2%	2%	3%	9%
							grade 3 events	638	606	692	602	612	1518
								0%	0%	1%	0%	0%	2%
							grade 4 events	602	633	632	642	618	1529
								0%	0%	0%	0%	0%	2%
							grade 5 events	1301	1226	1174	1373	1315	3235
								1%	1%	1%	2%	1%	6%
							grade 6 events	1657	1768	1496	1538	1899	10526
								2%	2%	2%	2%	2%	19%
							grade 7 events	54971	61901	56073	56736	63176	29197
								83%	85%	84%	84%	84%	54%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	35.48259745914096	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	7.023133065803863	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	93.78016206757471	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	560484404.527035	560484403.50203			
Observation start date	2015-10-06T02:06:45	2015-10-06T02:06:43			
[s] Observation end time (MET)	560491581.57744	560491580.55244			
Observation end date	2015-10-06T04:06:22	2015-10-06T04:06:20			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7628664226532

### A.2 Comments